

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1324787

Luminaire Tested: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

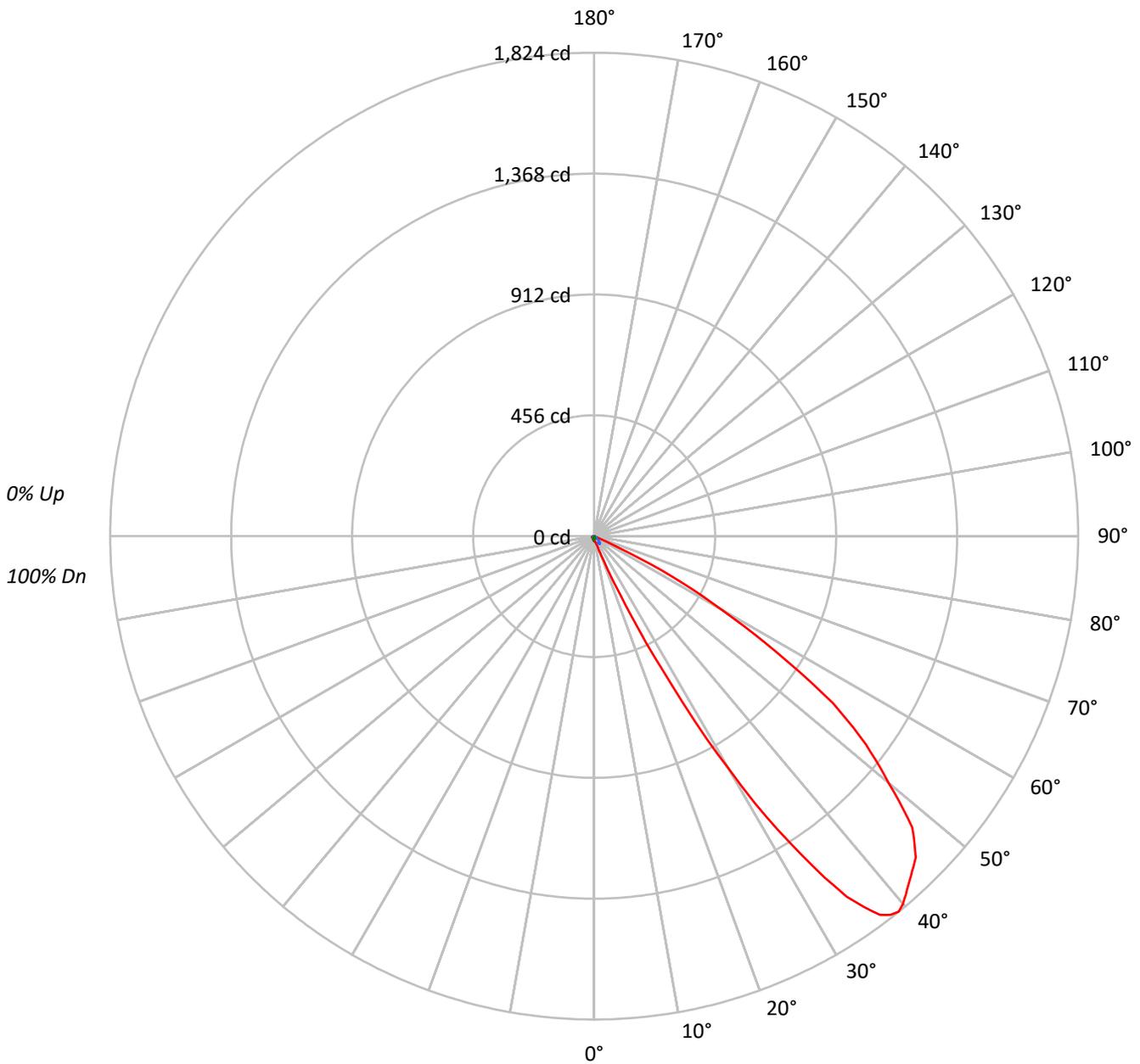
Test Method: LM-79-2019  
Report Number: P1324787  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R30W2N902765DE010 3LSQCA45R 1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R30 optic, 5000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 474.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	63	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	19	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	3169	3169	3169	3169	3169
5°	3388	3319	3112	2835	2766
10°	3707	3288	2728	2448	2378
15°	5402	3281	2282	2068	2140
20°	13617	3592	1759	1759	1979
25°	63203	4485	1368	1596	1824
30°	201212	6185	1034	1511	1830
35°	349133	7548	841	1430	1850
40°	407173	7531	629	1439	1888
45°	417583	5358	682	1559	2046
50°	388339	3001	536	1608	2358
55°	330047	1561	601	1802	2642
60°	190616	413	689	1929	2893
65°	38877	0	815	2282	3260
70°	604	201	1007	2618	3827
75°	532	266	1065	2662	4525
80°	397	397	1587	3174	5157
85°	0	790	3162	3162	6323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 417583 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.7	0.4
10°-20°	4.8	1.0
20°-30°	27.3	5.8
30°-40°	127.7	26.9
40°-50°	180.6	38.1
50°-60°	111.1	23.4
60°-70°	16.9	3.6
70°-80°	2.7	0.6
80°-90°	1.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	33.8	7.1
0°-40°	161.5	34.1
0°-60°	453.1	95.6
0°-90°	474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	474.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	20	19	18	16	16	2
15°	30	18	13	12	12	11
25°	333	24	7	8	10	205
35°	1661	36	4	7	9	997
45°	1714	22	3	6	8	1300
55°	1099	5	2	6	9	935
65°	95	0	2	6	8	173
75°	1	0	2	4	7	1
85°	0	0	2	2	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	18.8	18.8	19.2	19.2	18.8	19.2	19.2	19.2	18.4	18.0	17.2
5°	19.6	19.6	19.6	20.0	19.6	19.6	19.2	18.8	18.0	16.8	16.4
7.5°	20.4	20.4	20.0	20.4	20.0	20.0	19.2	18.4	17.2	16.0	15.2
10°	21.2	21.2	20.8	20.8	20.4	20.4	18.8	17.6	15.6	14.4	14.0
12.5°	23.6	23.6	23.2	22.8	22.0	21.6	18.4	16.4	14.0	12.8	12.4
15°	30.3	29.9	29.1	27.9	26.0	25.6	18.4	15.2	12.8	11.6	11.6
17.5°	41.5	41.1	39.9	36.7	33.1	31.9	18.4	13.6	11.2	10.4	10.4
20°	74.3	71.1	65.1	57.1	48.7	44.3	19.6	12.0	9.6	9.2	9.6
21°	97.0	93.8	86.2	73.1	58.3	53.5	20.4	11.6	9.2	8.8	9.6
22°	132.2	128.6	113.0	95.0	73.9	65.5	20.8	10.8	8.4	8.4	9.2
23°	184.5	178.5	152.1	123.4	92.2	80.3	21.6	10.4	8.0	8.4	8.8
24°	241.6	236.4	206.4	163.3	117.8	100.6	22.4	10.0	7.6	7.6	8.4
25°	332.6	326.6	273.5	206.0	149.3	121.0	23.6	9.2	7.2	7.2	8.4
26°	450.4	422.8	352.2	265.5	184.1	151.7	24.8	8.8	6.8	7.2	8.0
27°	562.2	539.4	460.0	340.6	227.6	186.5	26.4	8.4	6.4	6.8	8.0
28°	709.1	677.2	577.0	430.8	286.7	225.6	27.9	8.0	6.0	6.8	7.6
29°	873.6	828.9	707.9	532.2	353.4	269.5	29.5	7.6	5.6	6.4	7.6
30°	1011.8	969.8	848.9	652.4	430.0	327.4	31.1	7.2	5.2	6.4	7.6
31°	1173.9	1110.4	963.9	754.2	495.9	385.3	32.7	6.4	4.8	6.0	7.2
32°	1305.2	1260.9	1105.2	869.2	582.5	449.2	33.9	6.0	4.8	6.0	7.2
33°	1432.2	1372.7	1222.2	979.4	660.8	514.7	35.1	5.6	4.4	5.6	7.2
34°	1553.6	1498.9	1332.8	1068.5	734.7	577.0	35.9	4.8	4.4	5.6	6.8
35°	1660.6	1597.1	1430.2	1155.5	810.5	633.7	35.9	4.4	4.0	5.2	6.8
36°	1730.1	1684.6	1514.9	1241.4	879.2	687.6	35.9	4.0	3.6	5.2	6.4
37°	1789.6	1736.5	1582.7	1307.2	929.9	730.7	35.9	3.6	3.6	5.2	6.4
38°	1813.9	1768.4	1629.5	1365.5	977.4	774.6	35.5	3.2	3.2	4.8	6.4
39°	1823.5	1782.8	1664.6	1407.5	1012.6	804.1	34.7	2.8	3.2	4.8	6.4
40°	1811.1	1780.4	1682.6	1434.6	1040.5	825.7	33.5	2.4	2.8	4.8	6.4
42.5°	1760.0	1739.7	1678.6	1461.8	1064.5	841.7	29.1	1.6	2.8	4.4	6.4
45°	1714.5	1692.1	1638.2	1433.4	1033.3	810.1	22.0	0.8	2.8	4.4	6.4
47.5°	1626.3	1612.3	1570.0	1361.1	965.1	739.1	15.6	0.4	2.4	4.0	6.0
50°	1449.4	1436.2	1380.3	1181.9	830.1	624.9	11.2	0.4	2.0	4.0	6.0
52.5°	1290.9	1276.9	1196.6	982.6	637.6	458.0	7.2	0.4	2.0	4.0	6.0
55°	1099.2	1074.9	969.4	745.9	452.0	307.0	5.2	0.4	2.0	3.6	6.0
57.5°	813.7	778.2	684.0	508.7	260.3	166.5	2.8	0.4	2.0	3.6	6.0
60°	553.4	532.2	428.0	268.3	111.0	70.3	1.2	0.4	2.0	3.6	5.6
62.5°	335.4	308.6	215.2	114.2	47.9	31.9	0.0	0.8	2.0	3.6	5.6
65°	95.4	84.6	56.3	26.0	13.6	10.4	0.0	0.8	2.0	3.6	5.6
67.5°	3.2	3.2	3.2	2.8	2.0	2.0	0.4	0.8	2.0	3.6	5.2
70°	1.2	1.2	1.2	0.8	0.8	0.4	0.4	0.8	2.0	3.2	5.2
72.5°	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.8	1.6	2.8	4.8
75°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.8	4.0
77.5°	0.8	0.8	0.8	0.4	0.4	0.4	0.4	1.2	1.6	2.4	4.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.2	1.6	2.4	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.4	0.4	0.4	0.0	0.0	0.0	0.4	1.2	1.6	1.6	2.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	1.2	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.2	1.2	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
0°	18.4	18.4
2.5°	17.2	17.2
5°	16.0	16.0
7.5°	14.8	14.8
10°	13.6	13.6
12.5°	12.8	12.8
15°	11.6	12.0
17.5°	10.8	11.2
20°	10.4	10.8
21°	10.4	10.8
22°	10.0	10.4
23°	10.0	10.4
24°	9.6	10.0
25°	9.2	9.6
26°	9.2	9.6
27°	9.2	9.6
28°	8.8	9.6
29°	8.8	9.2
30°	8.8	9.2
31°	8.4	9.2
32°	8.4	9.2
33°	8.4	8.8
34°	8.0	8.8
35°	8.0	8.8
36°	8.0	8.8
37°	8.0	8.4
38°	8.0	8.8
39°	8.0	8.4
40°	8.0	8.4
42.5°	8.0	8.4
45°	8.0	8.4
47.5°	8.0	8.8
50°	8.0	8.8
52.5°	8.0	8.8
55°	8.0	8.8
57.5°	8.0	8.4
60°	8.0	8.4
62.5°	7.6	8.4
65°	7.6	8.0
67.5°	7.6	8.0
70°	7.2	7.6
72.5°	6.8	7.2
75°	6.0	6.8
77.5°	5.6	6.0
80°	4.8	5.2



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	4.0	4.0
85°	2.8	3.2
87.5°	1.6	1.6
90°	0.0	0.0

(END OF REPORT)